

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Scott Rogers Examiner #: 106541 Date: 1/24/03  
Art Unit: 2624 Phone Number 30 Serial Number: 09125  
Mail Box and Bldg/Room Location: PL 414 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

08 5943448\*\*\*\*\*  
STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>KEJ</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit <u>2</u>
Date Searcher Picked Up: <u>1/24/03</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>1/24/03</u>	Litigation <u>✓</u>	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>17</u>	Other _____	Other (specify) _____

Query/Command : prt max legalall

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/// PLUSPAT - ©QUESTEL-ORBIT

PN - US5943448 A 19990824 [US5943448]  
TI - (A) Information reproducing system, information recording medium, and information recording apparatus  
PA - (A) OLYMPUS OPTICAL CO (JP)  
IN - (A) TATSUTA SEIJI (JP)  
AP - US76413696 19961212 [1996US-0764136]  
PR - JP33680095 19951225 [1995JP-0336800]  
IC - (A) G06K-009/38 G06T-007/60  
EC - G06K-007/10D  
G06K-007/14  
G06K-009/38  
G06K-019/06C3  
G06T-005/00F  
PCL - ORIGINAL (O) : 382270000; CROSS-REFERENCE (X) : 382286000  
DT - Basic  
CT - EP0670555 A1; EP0717398 A3; JP59-61383  
STG - (A) United States patent  
AB - A binarizing section generates binarized data from an image signal of a dot code on an information recording medium read by a code reading section. The binarizing section has a reference dot detection section, a dot area measuring section, a threshold value modifying section and a threshold value determining section. The reference dot detection section binarizes the image signal with a predetermined threshold value prior to generating binarized data to detect a reference dot from a binarized code image. The dot area measuring section measures the area of the reference dot detected by the reference dot detection section. The threshold value modifying section modifies the threshold value for binarization in such a manner that the area measured by the dot area measuring section approaches a predetermined target value. The threshold value determining section binarizes the image signal with the threshold value modified by the threshold value modifying section

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/// LGST - ©LEGSTAT

PN - US 5943448 [US5943448]  
AP - US 764136/96 19961212 [1996US-0764136]  
DT - US-P  
ACT - 19961212 US/AE-A  
APPLICATION DATA (PATENT)  
US 764136/96 19961212 [1996US-0764136]  
  
19990824 US/A  
PATENT  
  
20010710 US/RF  
REISSUE APPLICATION FILED  
20010509  
UP - 2001-29

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/// CRXX - ©CLAIMS/RRX

PN - 5,943,448 A 19990824 [US5943448]

PA - Olympus Optical Co Ltd JP  
ACT - 20010509 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20010710  
REISSUE REQUEST NUMBER: 09/851874  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2625

Reissue Patent Number:

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/// PAST - ©Thomson Derwent

AN - 200128-001170  
PN - 5943448 A [US5943448]  
OG - 2001-07-10  
ACT - REISSUE APPLICATION FILED

5,943,448 OR 5943448

LEXIS-NEXIS  
Library: NEWS  
File: CURNWS

Your search request has found no STORIES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

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For further explanation, press the H key (for HELP) and then the ENTER key.

5943448

<=1> GET 1st DRAWING SHEET OF 50

August 24, 1999

Information reproducing system, information recording  
medium, and information recording apparatus

REISSUE: Reissue Application filed May 9, 2001 (O.G. Jul. 10, 2001) Ex. Gp.:  
2625; Re. S.N. 09/851,874, (O.G. July 10, 2001)

APPL-NO: 764136 (08)

FILED-DATE: December 12, 1996

GRANTED-DATE: August 24, 1999

CORE TERMS: dot, threshold, sub, recording, ratio, interior, region, detection,  
binarizing, calculated ...

ENGLISH-ABST:

A binarizing section generates binarized data from an image signal of a dot code on an information recording medium read by a code reading section. The binarizing section has a reference dot detection section, a dot area measuring section, a threshold value modifying section and a threshold value determining section. The reference dot detection section binarizes the image signal with a predetermined threshold value prior to generating binarized data to detect a reference dot from a binarized code image. The dot area measuring section measures the area of the reference dot detected by the reference dot detection section. The threshold value modifying section modifies the threshold value for binarization in such a manner that the area measured by the dot area measuring section approaches a predetermined target value. The threshold value determining section binarizes the image signal with the threshold value modified by the threshold value modifying section.

5,943,448 OR 5943448 /

**LEXIS-NEXIS**  
**Library: PATENT**  
**File: CASES**

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5,943,448 OR 5943448

LEXIS-NEXIS  
Library: PATENT  
File: JNLS

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For further explanation, press the H key (for HELP) and then the ENTER key.

?s pn=us 5943448  
S2 1 PN=US 5943448  
?t 1/39/1

1/39/1  
>>>Item 1 is not within valid item range  
?t 2/39/1

2/39/1  
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
(c) 2003 EPO. All rts. reserv.

13817490  
Basic Patent (No,Kind,Date): JP 9179930 A2 19970711 <No. of Patents: 003>  
Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
JP 9179930	A2	19970711	JP 95336800	A	19951225	(BASIC)
US 5943448	A	19990824	US 764136	A	19961212	
US 6219460	BA	20010417	US 255256	A	19990222	

Priority Data (No,Kind,Date):  
JP 95336800 A 19951225  
US 255256 A 19990222  
US 764136 A3 19961212

PATENT FAMILY:  
JAPAN (JP)

Patent (No,Kind,Date): JP 9179930 A2 19970711  
INFORMATION REPRODUCTION SYSTEM, INFORMATION RECORDING MEDIUM, AND  
INFORMATION RECORDING DEVICE (English)  
Patent Assignee: OLYMPUS OPTICAL CO  
Author (Inventor): TATSUTA SEIJI  
Priority (No,Kind,Date): JP 95336800 A 19951225  
Applic (No,Kind,Date): JP 95336800 A 19951225  
IPC: \* G06K-007/10; G06K-007/00; G06K-019/06  
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5943448 A 19990824  
INFORMATION REPRODUCING SYSTEM, INFORMATION RECORDING MEDIUM, AND  
INFORMATION RECORDING APPARATUS (English)  
Patent Assignee: OLYMPUS OPTICAL CO (JP)  
Author (Inventor): TATSUTA SEIJI (JP)  
Priority (No,Kind,Date): JP 95336800 A 19951225  
Applic (No,Kind,Date): US 764136 A 19961212  
National Class: \* 382270000; 382286000  
IPC: \* G06K-009/38; G06T-007/60  
Language of Document: English

Patent (No,Kind,Date): US 6219460 BA 20010417  
INFORMATION REPRODUCING SYSTEM, INFORMATION RECORDING MEDIUM, AND  
INFORMATION RECORDING APPARATUS (English)  
Patent Assignee: OLYMPUS OPTICAL CO (US)  
Author (Inventor): TATSUTA SEIJI (JP)  
Priority (No,Kind,Date): US 255256 A 19990222; JP 95336800 A  
19951225; US 764136 A3 19961212  
Applic (No,Kind,Date): US 255256 A 19990222  
Addnl Info: 5943448 Patented  
National Class: \* 382270000; 382027300; 382195000  
IPC: \* G06K-009/38; G06K-009/46; G06T-007/00  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):  
US 5943448 P 19951225 US AA PRIORITY (PATENT)  
JP 95336800 A 19951225  
US 5943448 P 19961212 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))  
US 764136 A 19961212  
US 5943448 P 19990824 US A PATENT



US 5943448	P	20010710	US RF	REISSUE APPLICATION FILED
				(REISSUE APPL. FILED)
				20010509
US 6219460	P	19951225	US AA	PRIORITY (PATENT)
			JP 95336800 A	19951225
US 6219460	P	19961212	US AA	PRIORITY (DIVISION)
			US 764136 A3	19961212
US 6219460	P	19990222	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))
			US 255256 A	19990222
US 6219460	P	20010417	US BA	PATENT (NO PREVIOUS
				PRE-GRANT PUBLICATION)